S&H Form: PTO/SB/05 (2/01)

	UTILITY PATENT APPLICATION			Attorney Docket No. 826.1746						
				First Named Inventor or Application Identifier:	a a					
	4		TRÂNSMITTAL	Toshiki TANAKA, et al.						
	=		TRANSMIT IAL	Firm a Mail I abol No	- S					
			(Only for original applications)	Express Mail Label No.						
	PTO		APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents.	ADDRESS TO: Assistant Commissioner for Patents Box Patent Application Washington, DC 20231	100					
	1.   Fee Transmittal Form									
	2. Specification, Claims & Abstract[Total Pages: 46]									
	3. Drawing(s) (35 USC 113)[ Total Sheets: 28 ] [FIGS. 1-28 ]									
	4.  Oath or Declaration									
** == #	5.		Verified Statement Claiming Small Entity Status							
Mary days	6.		Application Data Sheet. See 37 C.F.R. 1.76							
1D	7.		CD-Rom or CD-R in duplicate, large table or Compu	iter Program (Appendix)						
	8.		Nucleotide and/or Amino Acid Sequence Submissio a. ☐ Computer Readable Form (CRF) b. ☐ Specification Sequence Listing on: i. ☐ CD-ROM or CD-R (2 copies); or II. ☐ paper c. ☐ Statement verifying identity of above copies	n (if applicable, all necessary)						
II Aes		_	MPANYING APPLICATION PARTS	the total control to the control to						
444										
an den	for publication of assignee information under 37 CFR 1.215(b)									
Any des des		_	37 CFR 3.73(b) Statement (when there is an assignee	Power of Attorney						
			English Translation Document (if applicable)	F7 0 1 (100 0) 1						
ļ= <u>+</u>										
	13. Preliminary Amendment									
	14. Return Receipt Postcard (MPEP 503) (Should be specifically itemized)									
			Certified Copy of Priority Document(s) (if foreign priority							
	16. Request and Certification for Nonpublication under 35 U.S.C. 122(b)(2)(B)(i). Applicant must attach form									
	47		PTO/SB/35 or its equivalent							
			Other:							
	18. CORRESPONDENCE ADDRESS									
			211	<b>           </b> 71						
			PATENT TRADE	MARK OFFICE						

AMOUNT ENCLOSED \$ 1150.00   Filing Date   August 28, 2001   AMOUNT ENCLOSED   \$ 1150.00   First Named Inventor   Toshiki TANAKA, et al.   FEE CALCULATION (fees effective 10/01/00)   FileD   EXTRA   TOTAL CLAIMS   16 - 20 =		NEW APPLICATION	Attornov	Dock	at No	92	6 17/6	30111011	11 (2/01					
AMOUNT ENCLOSED	1						02	326.1746						
AMOUNT ENCLOSED \$ 1150.00   First Named Inventor   Toshiki TANAKA, et al.   FEE CALCULATION (fees effective 10/01/00)    CLAIMS   (1) FOR   (2) NUMBER   (3) NUMBER   (4) RATE   (5) CALCULATIONS    FILED   X \$ 18.00   \$ 0.00    INDEPENDENT   8 - 3 =		TEE INAMOMITIA	<b>-</b>					August 29, 2001						
CLAIMS	AMOUNT EN	CLOSED T &	1150.00				_							
CLAIMS (1) FOR (2) NUMBER (3) NUMBER (4) RATE (5) CALCULATIONS FILED EXTRA  TOTAL CLAIMS 16 - 20 = 0														
TOTAL CLAIMS 16 - 20 = 0				(2) NIL IN	IDED	(4) DAT		(E) CAL	CULATI	ONS				
TOTAL CLAIMS    16 - 20	CLAIMS	(1) FOR				(4) KAIE		(5) CAL	_COLATI	CNS				
INDEPENDENT   8	<u> </u>	TOTAL CLAIMS				X \$ 18	იი	\$ 0	00					
CLAIMS		TOTAL OLANIO	10 20			1		• •.						
CLAIMS	-	INDEPENDENT	8 - 3 =	5		X \$ 80.	00	400	0.00					
If applicable	*													
BASIC FILING FEE  Total of above Calculations =  Surcharge for late filing fee, Oath or Declaration (37 CFR 1.53(f)) (\$130.00)  Reduction by 50% for filing by small entity (37 CFR 1.27).  TOTAL FILING \$ 1110.00  Recordation of Assignment (\$40.00; 37 CFR 1.21).  METHOD OF PAYMENT  Check enclosed as payment.  Charge "TOTAL FEES DUE" to the Deposit Account No. below.  No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CIPs		MULTIPLE DEPENDENT CLAIMS (any number; + \$270.00							-					
FEE										*				
Total of above Calculations =						IC FILING	•	710	0.00					
Surcharge for late filing fee, Oath or Declaration (37 CFR 1.53(f)) (\$130.00)  Reduction by 50% for filing by small entity (37 CFR 1.27).    TOTAL FILING   \$ 1110.00     FEE =			7 1											
Surcharge for late filing fee, Oath or Declaration (37 CFR 1.53(f)) (\$130.00)  Reduction by 50% for filing by small entity (37 CFR 1.27).  TOTAL FILING \$ 1110.00  FEE =  Surcharge for filing non-English language application (\$130.00; 37 CFR 1.52(d))  Recordation of Assignment (\$40.00; 37 CFR 1.21(h)) 40.00  METHOD OF PAYMENT  Check enclosed as payment.  Charge "TOTAL FEES DUE" to the Deposit Account No. below.  No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account Name  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CIPs under 37 CFR 1.53(d) to maintain pendency hereof or of any such related application.								\$ 111	0.00					
1.53(f)) (\$130.00)   Reduction by 50% for filing by small entity (37 CFR 1.27).   TOTAL FILING   \$ 1110.00   FEE =														
Surcharge for filing non-English language application (\$130.00; 37 CFR 1.52(d))  Recordation of Assignment (\$40.00; 37 CFR 1.21(h)) 40.00  METHOD OF PAYMENT  Check enclosed as payment.  Charge "TOTAL FEES DUE" to the Deposit Account No. below.  No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account Name  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name  James D. Masel Jr.  Reg. No. 22,729  Signature  Date August 28, 2001		,												
Surcharge for filing non-English language application (\$130.00; 37 CFR 1.52(d))  Recordation of Assignment (\$40.00; 37 CFR 1.21(h))  Recordation of Assignment (\$40.00; 37 CFR 1.21(h))  METHOD OF PAYMENT  Check enclosed as payment.  Charge "TOTAL FEES DUE" to the Deposit Account No. below.  No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account Name  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS& HALSEY LLP  Typed Name  James D. Mase/Jr.  Reg. No. 22,729  Signature  Date  August 28, 2001														
Surcharge for filing non-English language application (\$130.00; 37 CFR 1.52(d))  Recordation of Assignment (\$40.00; 37 CFR 1.21(h))  RETHOD OF PAYMENT  Check enclosed as payment.  Charge "TOTAL FEES DUE" to the Deposit Account No. below.  No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account No.  19-3935  Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application  SUBMITTED BY: STAAS HALSEY LLP  Typed Name  James D. Matsey JJr.  Reg. No. 22,729  Signature  Date August 28, 2001		1					3	\$ 111	0.00					
Recordation of Assignment (\$40.00; 37 CFR 1.21(h))														
Recordation of Assignment (\$40.00; 37 CFR 1.21(h))														
METHOD OF PAYMENT  ☐ Check enclosed as payment. ☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below. ☐ No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  ☐ GENERAL AUTHORIZATION ☐ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to: ☐ Deposit Account No. ☐ Deposit Account Name ☐ STAAS & HALSEY LLP ☐ The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  ☐ SUBMITTED BY: STAAS & HALSEY LLP  Typed Name ☐ James D. Malsey Jr. Reg. No. 22,729  Signature ☐ Date August 28, 2001		Recordation of Assignment (\$40.00; 37 CFR 1.21(h))												
METHOD OF PAYMENT  ☐ Check enclosed as payment. ☐ Charge "TOTAL FEES DUE" to the Deposit Account No. below. No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  ☐ GENERAL AUTHORIZATION ☐ If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  ☐ Deposit Account No. ☐ 19-3935 ☐ Deposit Account Name ☐ The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name James D. Malsey Jr. Reg. No. 22,729  Signature Date August 28, 2001						\$ 115	0.00							
Check enclosed as payment.  Charge "TOTAL FEES DUE" to the Deposit Account No. below.  No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name  James D. Masel Jr.  Reg. No. 22,729  Signature  Date August 28, 2001			DUE =											
Charge "TOTAL FEES DUE" to the Deposit Account No. below.  No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name  James D. Makey Jr.  Reg. No. 22,729  Signature  Date  August 28, 2001		PAYMENT												
No payment is enclosed and no charges to the Deposit Account are authorized at this time (unless specifically required to obtain a filing date).  GENERAL AUTHORIZATION  If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name  James D. Malsey /Jr.  Reg. No. 22,729  Signature  Date August 28, 2001	│ 🏻 Check e	enclosed as paymen	t.											
GENERAL AUTHORIZATION	☐ Charge	"TOTAL FEES DUE	" to the Deposit A	Account N	o. belo	w.								
GENERAL AUTHORIZATION	☐ No payı	ment is enclosed and	no charges to the	he Deposi	t Acco	unt are au	utho	rized at tl	his time					
If the above-noted "AMOUNT ENCLOSED" is not correct, the Commissioner is hereby authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No.  Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name  James D. Maysey /Jr.  Reg. No. 22,729  Signature  Date August 28, 2001	unless (unless	specifically required	to obtain a filing	date).										
authorized to credit any overpayment or charge any additional fees necessary to:  Deposit Account No. 19-3935  Deposit Account Name STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name James D. Malsey /Jr. Reg. No. 22,729  Signature Date August 28, 2001														
Deposit Account No.  Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS HALSEY LLP  Typed Name  James D. Halsey Jr.  Reg. No. 22,729  Signature  Date August 28, 2001									reby					
Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name  James D. Malsey Jr.  Reg. No. 22,729  Signature  Date  August 28, 2001														
Deposit Account Name  STAAS & HALSEY LLP  The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name  James D. Malsey Jr.  Reg. No. 22,729  Signature  Date  August 28, 2001		D	40 0005			•								
The Commissioner is also authorized to credit any overpayments or charge any additional fees required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name		Deposit Account No.	19-3935			4								
required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name		Deposit Account Na	me STAAS &	HALSEY	LLP									
required under 37 CFR 1.16 (filing fees) or 37 CFR 1.17 (processing fees) during the prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name	<b>5</b> 7 - 0			-P4			h		dditional f					
prosecution of this application, including any related application(s) claiming benefit hereof pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name	The Commissioner is also authorized to credit any overpayments or charge any additional													
pursuant to 35 USC 120 (e.g., continuations/divisionals/CIPs under 37 CFR 1.53(b) and/or continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name James D. Makey Jr. Reg. No. 22,729  Signature Date August 28, 2001	prosec	ution of this applicati	on including any	related a	nnlicat	ion(s) cla	imin	a benefit	hereof					
continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of any such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name James D. Makey Jr. Reg. No. 22,729  Signature Date August 28, 2001	pursua	nt to 35 USC 120 (e	a. continuation	s/divisiona	ls/CIP	s under 3	7 CI	FR 1.53(I	b) and/or					
such related application.  SUBMITTED BY: STAAS & HALSEY LLP  Typed Name	continuations/divisionals/CPAs under 37 CFR 1.53(d)) to maintain pendency hereof or of ar													
Typed Name James D. Malsel Jr. Reg. No. 22,729  Signature Date August 28, 2001	such related application.													
Signature Date August 28, 2001														
	Typed Name	James D. Hallsey	/Jr.			Reg. N	lo.	22,729						
		$\perp$ $\mathcal{U}_{1} \mathcal{U}_{2}$				<b> </b>			00.0004	ı				
		1/1//				Date		August	∠8, 2001					